

Attorney Docket No. 9405-2

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor: Anbuky et al.

Serial No.: 10/611,650

Filed: July 1, 2003

For: APPARATUS, METHODS AND COMPUTER PROGRAM PRODUCTS FOR
ESTIMATION OF BATTERY RESERVE LIFE USING ADAPTIVELY MODIFIED STATE
OF HEALTH INDICATOR-BASED RESERVE LIFE MODELS

Group Art Unit: 1745

Examiner: To Be Assigned

Confirmation No.: 2087

Date: January 9, 2004

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)

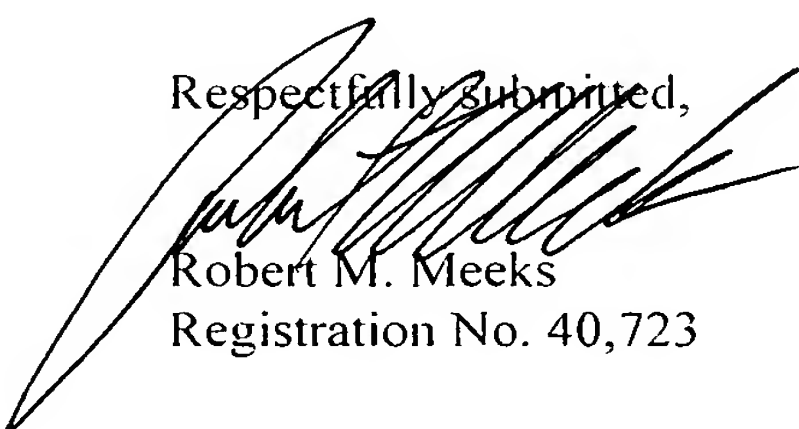
Sir:

Attached is a list of documents on Form PTO-1449, together with a copy of any listed foreign patent document and/or non-patent literature. A copy of any listed U.S. patent and/or U.S. patent application publication is not provided herewith in accordance with the waiver by the U.S. Patent and Trademark Office of requirements under 37 C.F.R. § 1.98(a)(2)(i) for all U.S. national patent applications filed after June 30, 2003 and for all international applications that have entered the national stage under 35 USC § 371 after June 30, 2003.

It is requested that these documents be considered by the Examiner and officially made of record in accordance with the provisions of 37 C.F.R. § 1.56 and Section 609 of the MPEP.

No fee is believed due. However, the Commissioner is hereby authorized to charge any deficiency or credit any overpayment to Deposit Account No. 50-0220.

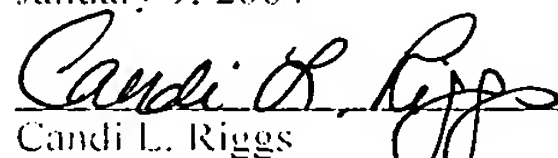
Respectfully submitted,

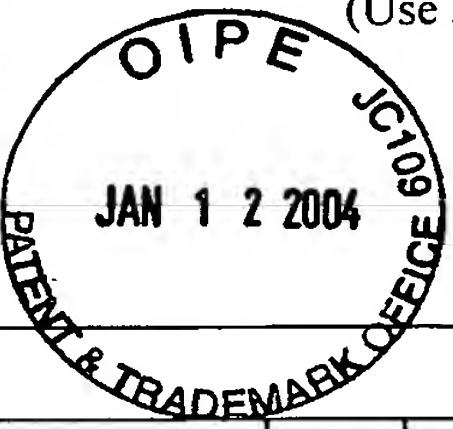

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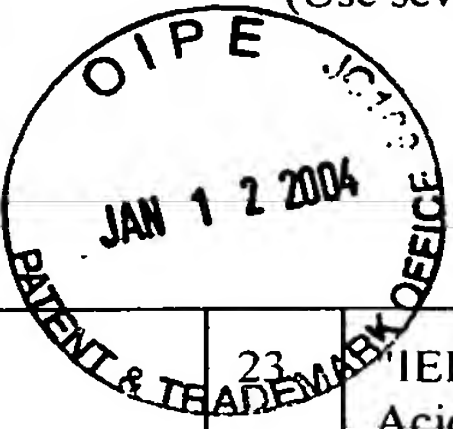

Candi L. Riggs

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)					Attorney Docket Number 9405-2		Serial No. 10/611,650	
					Applicants: Anbuky et al.			
					Filing Date: July 1, 2003		Group 1745	
U. S. PATENT DOCUMENTS								
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate	
	1.	6,255,801	7/3/01	Chalasani	320	132		
	2.	6,104,967	8/15/00	Hagen et al.	700	293		
	3.	6,064,180	5/16/00	Sullivan et al.	320	132		
	4.	5,825,156	10/20/98	Patillon et al.	320	21		
	5.	5,822,495	10/13/98	Wang et al.	395	3		
	6.	5,786,640	7/28/98	Sakai et al.	290	17		
	7.	5,773,962	6/30/98	Nor	320	134		
	8.	5,663,626	9/2/97	D'Angelo et al.	318	799		
	9.	5,619,417	4/8/97	Kendall	364	483		
	10.	5,587,924	12/24/96	Rossi	364	496		
	11.	5,587,660	12/24/96	Chabbert et al.	324	426		
	12.	5,371,682	12/6/94	Levine et al.	364	483		
	13.	5,130,659	7/14/92	Sloan	324	435		
	14.	4,952,862	8/28/90	Biagetti et al.	320	48		
	15.	4,876,513	10/24/89	Brilmyer et al.	324	427		
FOREIGN PATENT DOCUMENTS								
		Document Number	Date	Country	Class	Subclass	Translation Yes No	
	16.	0 714 033	5/29/96	Europe				
	17.	2 734 061	11/15/96	France				
	18.	WO96/15563	5/23/96	PCT				
	19.	WO98/32181	7/23/98	PCT				
	20.	WO98/40951	9/17/98	PCT				
	21.	WO99/27628	6/3/99	PCT				
	22.	WO99/34224	7/8/99	PCT				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								

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FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)		Attorney Docket Number 9405-2	Serial No. 10/611,650
		Applicants: Anbuky et al.	
		Filing Date: July 1, 2003	Group 1745
	23.	IEEE Recommended Practice for Maintenance, Testing, and Replacement of Valve-Regulated Lead-Acid (VRLA) Batteries for Stationary Applications," IEEE Std 1188-1996, 16 pages	
	24.	Alber et al., "Impedance Testing – Is it a Substitute for Capacity Testing," INTELEC 1994, 10-1, pp. 245-249	
	25.	Anbuky et al., "Knowledge Based VRLA Battery Monitoring and Health Assessment," IEEE, 2000, pp. 687-694	
	26.	Cun et al., "The Experience of a UPS Company in Advanced Battery Monitoring," INTELEC 1996, 22-5, pp. 646-653	
	27.	International Search Report, PCT/NZ01/00183, July 23, 2002	
	28.	International Search Report, PCT/NZ01/00182, May 29, 2002	
	29.	Konya et al., "A Deterioration Estimating System for 200-Ah Sealed Lead-Acid Batteries," 1994 IEEE, pp. 256-262	
	30.	Kurisawa et al., "Capacity Estimating Method of Lead-Acid Battery by Short-time Discharge," INTELEC 1997, pp. 493-490	
	31.	Kurisawa et al., "Internal Resistance and Deterioration of VRLA Battery Analysis of Internal Resistance Obtained by Direct Current Measurement and its Application to VRLA Battery Monitoring Technique," INTELEC 1997, 29-3, pp. 687-694	
	32.	Markle, Gary J., "AC Impedance Testing for Valve Regulated cell," INTELEC 1992, 9-4, pp. 212-217	
	33.	Ng et al., "Evaluation of a Reverse Time Prediction Algorithm for Lead Acid Battery," INTELEC 1996, pp. 616-623	
	34.	Pascoe et al., "Estimation of VRLA Battery Capacity Using The Analysis of The Coup De Fouet Region," 1999 IEEE, 9 pages	
	35.	Pascoe et al., "VRLA Battery Capacity Measurement and Discharge Reserve Time Prediction," 1998 IEEE, pp. 302-310	
	36.	Suntio et al., "The Batteries as a Principal Component in DC UPS Systems," IEEE, 1990, pp. 400-411	
	37.	Supplementary European Search Report, EP 99 94 0753, June 25, 2002	
	38.	Troy et al., "Midpoint Conductance Technology Used in Telecommunication Stationary Standby Battery Applications, Part VI, Considerations for Deployment of Midpoint Conductance in Telecommunications Power Applications," INTELEC 1997, 29-4, pp. 695-702	
	39.	Yamamoto et al., "Deterioration Estimation Method for 200-Ah Sealed Lead-Acid Batteries," NTT Review, Vol. 7, No. 4, July 1995, pp. 65-69	
	40.	Yamashita et al., "A New Battery Check System in Telecommunications Power Plants," NTT Review, Vol. 9, No. 3, May 1997, pp. 131-135	

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